

Solving Proportions

Directions: Solve each proportion. Express your answers as a mixed number or as a fraction in simplest terms.

1. $\frac{5}{8} = \frac{x}{32}$

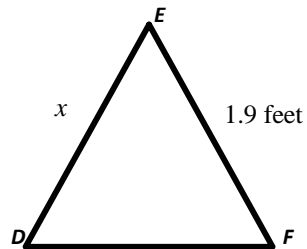
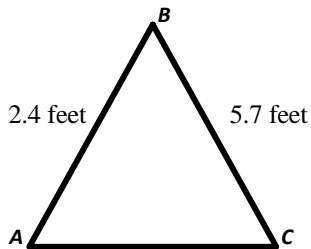
2. $\frac{6}{25} = \frac{32}{x}$

3. $\frac{1.2}{x} = \frac{24}{30}$

4. A 6-foot tall man casts a shadow that is 9 feet long. At the same time, a nearby flagpole casts a shadow that is 60 feet long. How tall is the flagpole?

5. A recipe requires $\frac{2}{3}$ cup of brown sugar to make 20 cookies. How much brown sugar is required to make 35 cookies?

6. $\triangle ABC$ is similar to $\triangle DEF$. Find the value of x .



7. $\frac{x+12}{9x} = \frac{5}{9}$

8. $\frac{x}{20} = \frac{x-4}{5}$

9. $\frac{18+x}{14-x} = \frac{3}{7}$